

BIBLIOGRAPHICAL RECORD.

Authors and societies are requested to forward their works to the editors as soon as published. The date of publication, given in brackets [], marks the time at which the work was received, unless an earlier date of publication is known to recorder or editor. Unless otherwise stated each record is made directly from the work that is noticed.

A colon after initial designates the most common given name, as: A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederic; G: George; H: Henry; I: Isaac; J: John; K: Karl; L: Louis; M: Mark; N: Nicholas; O: Otto; P: Peter; R: Richard; S: Samuel; T: Thomas; W: William. The initials at the end of each record, or note, are those of the recorder.

Corrections of errors and notices of omissions are solicited.

Applegarth, J: Manna and honey-dew. (Proc. Cal. acad. sci., 3 Mar. 1873. v. 5, p. 42-43.) [Rec., 540 a.]

Both manna and honey-dew appear in the fall, the former rarely, the latter regularly. Honey-bees [*apis mellifica*] collect both, which they store in separate cells. Neither are supposed to be caused by insects.

W: T. (2626)

B., J. On British wild flowers considered in relation to insects. (Journ. of bot., 1875, v. 13, n. s., v. 4, p. 157.)

Rev. of J: Lubbock's work of same title [Rec., 2528].

W: T. (2627)

Balfour, T: Alexander Goldie. Account of some experiments on *dionaea muscipula*, Venus' fly-trap. (Trans. bot. soc., Edinburgh, 10 June, 8 July 1875, v. 12, p. 334-369.)

Record of a series of experiments on the carnivorous habits of the species mentioned. Believes that the secreting glands of *dionaea* and *drosera* serve by their color, etc., to attract prey (p. 351). Notes the behavior of released insects (p. 342). States, on the authority of Prof. Dewar, that the acid of the secretion is formic acid.

W: T. (2628)

Bennett, Alfred W. The influence of insect-agency on the distribution of plants. (Journ. of botany, 1872, v. 10, n. s., v. 1, p. 334-335.)

Calls attention to the field for observation afforded by the relative distribution of plants and insects, and translates a portion of F. Hildebrand's "Ueber die Wechselbeziehungen in der Verbreitung von Pflanzen und Thieren" (Bot. Zeitung, Nov. 1869, v. 27, c. 792-794, 819-813) [Rec., 2647], as showing the work being done on the continent, in this direction.

W: T. (2629)

Brenchley, T. A. A. Bees as fertilizing agents. (Gard. chronicle, 31 Jan. 1880, n. s., v. 13, p. 149. 25 cm.)

States that bees are profitably employed in early houses for effecting pollination in the peach.

W: T. (2630)

Brown, Robert. Notes on some recent researches regarding dichogamy and other allied subjects. (Trans. bot. soc., Edinburgh, Apr. 1873, v. 11, p. 497-499.)

An account of a few of the more interesting hitherto published observations. Mentions the fertilization of *clerodendron thomsonae* by insects, that of *yucca* by *pro-nuba yuccasella*; denies that bees ever perforate flowers unless too large to enter them; and remarks on anemophilous flowers, and on terminology.

W: T. (2631)

Burton, F. M. Insects and artificial flowers. (Nature, 27 Dec. 1877, v. 17, p. 162-163, 12 cm.)

States that *macroglossa stellularum* has been seen to try to obtain nectar from artificial flowers on a lady's bonnet. Describes the strange actions of a *sphinx atropos* flying in the smoke of a steamer.

W: T. (2632)

Cook, Albert J: see PACKARD, A. S., jr., Moths entrapped by an asclepiad plant . . . [Rec., 1671].

Darwin, C: see PACKARD, A. S., jr., Moths entrapped by an asclepiad plant . . . [Rec., 1671].

Darwin, C: Fertilization of vincas. (Gard. chronicle, 15 June 1861, p. 552, 11 cm.)

Describes the structure of the flower of *v. major*, and shows how it might be fertilized by moths. Insects are said never to visit the flowers in England.

W: T. (2633)

Darwin, C: Nectar-secreting organs of plants. (Gard. chronicle, 21 July 1855, p. 487, 10 cm.)

Records the visits of *apis* to the stipular glands of *vicia sativa*, in sunshine.

W: T. (2634)

Darwin, C: On the two forms or dimorphic condition in the species of *primula* . . . [Rec., 2373].

Notice [by D. Oliver?], entitled "On dimorphism in *primula*." (Nat. hist. rev., Jan. 1862, v. 1, no. 5, p. 118, 8 cm.)

Rev. [by D. Oliver?], under title of article. (Nat. hist. rev., July 1862, v. 1, no. 7, p. 235-243.)

W: T. (2635)

Darwin, C.: On the various contrivances by which British and foreign orchids are fertilized . . . [Rec., 2378].

Rev. [by D. Oliver?], under full title. (Nat. hist. rev., Oct. 1862, v. 1, no. 8, p. 371-376.) W: T. (2636)

Delpino, Federico. Alcuni appunti di geografia botanica a proposito delle tabelle fitogeografiche del Prof. Hoffmann. [Estratto dal fasc. 3° del Bollettino della società geografica italiana]. Firenze, Sept. 1869. 45 p., 22×14, t 16×9.5.

Abstract, by F. Hildebrand, entitled "Ueber die Wechselbeziehungen in der Verbreitung von Pflanzen und Thieren." (Bot. Zeitung, 1869, v. 27: 19 Nov., c. 792-794; 26 Nov., c. 809-813.)

Engl. tr. of a portion of abstract, by A. W. Bennett, entitled "The influence of insect agency on the distribution of plants." (Journ. of botany, 1872, v. 10, n. s., v. 1, p. 334-335.)

Shows, among other things, that certain plants are so dependent upon certain insects and other animals for pollination that their distribution is necessarily limited by that of the insects in question. The presence of some such specialized plants in high latitudes is made use of as a reason for believing the occurrence of their particular groups of insects. W: T. (2637)

Delpino, Federico. Sull' opera "La distribuzione dei sessi nelle piante e la legge che osta alla perennità della fecondazione consanguinea" . . . Note critiche. (Atti della soc. ital. di sci. nat. [Milano], 1867, v. 10, p. 271-303.)

Separate, Milano, 1867. 34 p., 22×15, t 16×10.

Rev. of F. Hildebrand's "Die Geschlechter-Vertheilung bei den Pflanzen" . . . [Rec., 2436]. W: T. (2638)

Delpino, Federico. Relazione sull' apparecchio della fecondazione nelle asclepiadee, aggiuntevi alcune considerazioni sulle cause finali e sulla teoria di Carlo Darwin intorno all' origine delle specie. [Estratto dalla Gazzetta medica di Torino, 1865. Torino, 1865.] 24 p., 22×13, t 15.5×8.5.

The influence of insects is noted, and a partial literature of the subject given, beside details of the floral structure of *physianthus*, *periploca*, *gomphocarpa*, etc. W: T. (2639)

Delpino, Federico. Rivista botanica dell' anno 1878 [Estratto dall' Annuario scientifico italiano. Anno 15: 1878.] Milano. Fratelli Treves, 1879. 148 p., 19×13, t 16×9.

Part 3, Biologia vegetale (p. 18-36). Reviews 4 papers on insectivorous plants; the papers of Francis Darwin and Ferd. Cohn on protoplasmic (?) protrusions from the leaf hairs of *dipsacus* and the annulus of *amanita*, etc. (possibly connected with the absorption of organic matter); and four papers and a large number of notes on the fertilization of plants, in part through the agency of insects. W: T. (2640)

Delpino, Federico. Ulteriori osservazioni sulla dicogamia . . . Parte 1a [Rec., 2391].

Germ. tr. of greater part, by F. Hildebrand, entitled "F. Delpino's Weitere Beobachtungen über die Dichogamie im Pflanzenreich, mit Zusätzen und Illustrationen." (Bot. Zeitung, 1870: 16 Sept., c. 585-594; 23 Sept., c. 601-609; 30 Sept., c. 617-625; 7 Oct., c. 633-641; 14 Oct., c. 649-659; 21 Oct., c. 665-675, pl. 10.) W: T. (2641)

Delpino, Federico. Ulteriori osservazioni sulla dicogamia nel regno vegetale. Parte 2a. Fascicolo 2a. [Dagli Atti soc. ital. sci. nat. (Milano), 1874, v. 16: Jan., p. 151-160; July, p. 161-349; 1875, v. 17: Jan., p. 266-336; Mar., p. 337-407. Seduta del 28 Dicembre 1873.] Milano. Giuseppe Bernardoni, 1870 [corrected in copies distributed by the author to 1873-1874]. 351 p., 22×16, t 16×10.

Treats of zoidiophilous flowers, or those adapted to pollination by aid of animals; discussing the odors, colors, pollen and nectar of flowers as means of attracting to them insects and other animals, and showing how the latter effect cross-fertilization between the flowers. W: T. (2642)

Duchartre, P. Floraison et fécondation de l'agave *potatorum*, Zuccar. (Bull. soc. bot. de France, 27 Dec. 1861, v. 8, p. 629-630.)

Fertilization effected by flies. W: T. (2643)

Engelmann, G.: Notes on the genus *yucca*. (Trans. acad. sci. St. Louis, 1873, v. 3, p. 17-54.)

States (p. 28) that the flowers are pollinated by aid of *pronuba yuccasella*. W: T. (2644)

Ernst, A. Jottings from a botanical note book. (Journ. of botany, 1870, v. 8, p. 372-376.)

Fertilization of *cattleya mossiae* (p. 372). A species of *euglossa* was found to bear the pollinia on the upper part of the thorax. W: T. (2645)

Grieve, P.: Bees as fertilizing agents. (Gard. chronicle, 15 Feb. 1879, n. s., v. 11, p. 204, 26 cm.)

Does not believe in the introduction of bees into peach houses, as fertilization is well secured without their aid. W: T. (2646)

Hildebrand, Friedrich. Ueber die Wechselbeziehungen in der Verbreitung von Pflanzen und Thieren. (Bot. Zeitung, 1869, v. 27: 19 Nov., c. 792-794; 26 Nov., c. 809-813.)

Partial Engl. tr. by A. W. Bennett, entitled "The influence of insect-agency on the distribution of plants." (Journ. of botany, 1872, v. 10, n. s., v. 1, p. 334-335.)

Abstract of F. Delpino's "Alcuni appunti di geografia botanica . . . [Rec., 0079], showing among other things how the distribution of certain plants may be limited by that of the insects and other animals upon which they depend for their pollination. W: T. (2647)